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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/614,100 07/08/2003 Norio Yuki 3120-101 7644 28410 08/02/2005 **EXAMINER** 7590 BERENATO, WHITE & STAVISH, LLC YEE, DEBORAH 6550 ROCK SPRING DRIVE ART UNIT PAPER NUMBER **SUITE 240** BETHESDA, MD 20817 1742

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				(N)
		Application No.	Applicant(s)	
		10/614,100	NORIO YUKI ET AL	
Office Action Summary		Examiner	Art Unit	
		Deborah Yee	1742	
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet w	ith the correspondence address	
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a report of the provision of the period for reply is specified above, the maximum statutory period in the period for reply within the set or extended period for reply will, by statication of the period by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1.  1.136(a). In no event, however, may a eply within the statutory minimum of this will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed  ty (30) days will be considered timely.  NTHS from the mailing date of this communic  BANDONED (35 U.S.C. § 133).	eation.
Status				
2a)⊠	Responsive to communication(s) filed on <u>09 May 2005</u> .  This action is <b>FINAL</b> . 2b) This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims		•	
5)□ 6)⊠ 7)□	Claim(s) <u>2-11</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrawith Claim(s) is/are allowed.  Claim(s) <u>2-11</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and	rawn from consideration.		
Applicat	ion Papers			
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptance and applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the correspond	ccepted or b) objected to the drawing(s) be held in abeya tection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.12	
11)	The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152	2.
Priority <b>u</b>	ınder 35 U.S.C. § 119	·		
a)	Acknowledgment is made of a claim for foreignal All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have beer au (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachmen	t(s)			
1)	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

Application/Control Number: 10/614,100

Art Unit: 1742

## **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2 to 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al (US Patent 6,592,810) for the reasons set forth in the previous office action dated 5-9-2005.

#### Response to Arguments

1. Applicant's arguments filed 5-9-05 have been fully considered but they are not persuasive. Nishida in claim 5 of column 12 discloses a Fe-Ni-Co alloy composition having constituents whose wt% ranges overlap those recited by the claims; such overlap renders applicant's composition prima facie obvious because it would be obvious to one of ordinary skill in the art to select the claimed alloy wt% ranges from the broader disclosure of the prior art since the prior art has the same utility (shadow mask). Moreover prior art claim 6 of column 12 disclose a grain size of not less than 10 which overlaps with the claimed grain size of 7 to 10, and prior art claim 5 of column 12 discloses Nb nitride ,carbide and other compounds having a size being less than 5 microns, and is within the claimed range of 0.2 to 5 microns. Also note Table 3 of

Art Unit: 1742

columns 9-10 discloses yield strength of greater than 300MPA and low-coefficient of thermal expansion. Even though prior art does not teach magnetic property, such would be expected since compositional limitations are overlapping, and in absence of proof to the contrary.

2. It was submitted that a prima facie case of obviousness based on overlapping ranges may be rebutted by showing the criticality of the claimed ranges. Applicant, however, has not established criticality of the claimed alloy ranges because no adequate comparative test data has been provided. Note that comparative examples in Table 1 on page 14 of applicant's specification do not established criticality for the claimed Nb range of 0.1 to 0.4%Nb and defined patentability over the prior art Nb range having an upper limit of 0.1%. Note Applicant's comparative alloy N contains 0.06%Nb but its Co and Mn contents are also outside their ranges, and comparative alloy Q only contains 0.01% Nb. To establish criticality of the lower limit of 0.1% Nb, comparative data with examples slightly less than 0.1%Nb are needed.

### Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Art Unit: 1742

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on Monday-Friday from 6:00 to 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deborah Yee Primary Examiner Art Unit 1742